METAL FILM RESISTORS

金屬皮膜電阻

INTRODUCTION

MF series is a group of metal film resistors applying high Aluminum content base material vacuum sputtered by Ni-Cr alloy and excellent heat-and wet-proof special resin for protective coating. Those resistors are manufactured through integrated automatic production system and then have good stable and uniform property. Furthermore, they show excellent performance regardless open in air.

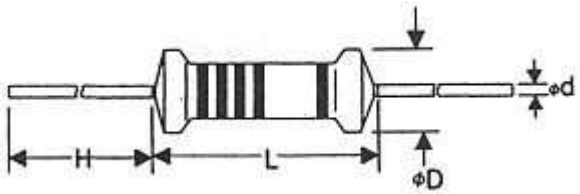
於真空中以濺射方式在瓷棒上均勻的鍍上一層特殊金屬膜，另瓷棒兩端再加鍍貴金屬以確保低雜音，低溫度係數。溫度係數有±200ppm~±10ppm，阻值容許誤差值有±5%~±0.1%，特別精密者可承製±0.1%以下，廣泛應用於高級音響、電算機、電腦、測試儀器、儀表、自動控制、國防及太空設備等。

FEATURES

- High stability.
- Low noise, Low temperature coefficient.
- Precision characterisitics.
- Variety of packaging-bulk, and taped, cut and formed supplied.

特性

- 高安定性。
- 低雜音，低溫度係數。
- 精密特性。
- 有各式包裝-散裝、帶狀，並供應各種成型，剪腳。



SPECIFICATION

DIMENSION

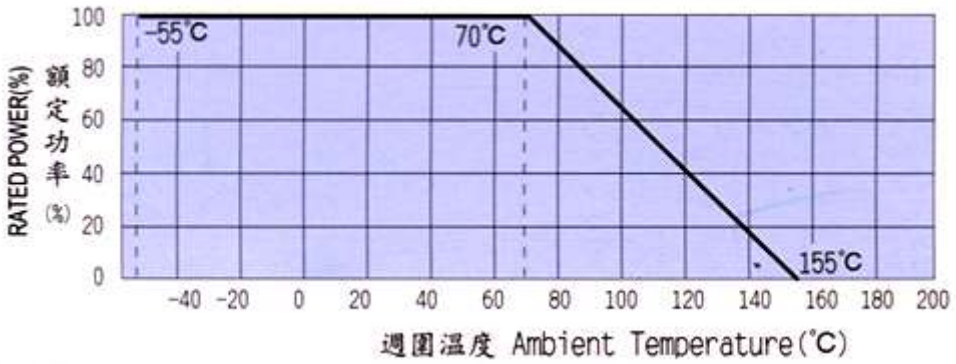
TYPE		MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE		TYPE		DIMENSION(mm)			
MF	MFS			±1%(F)	±0.5%(D)	MF	MFS	L±1	D±0.5	H(MIN)	d
1/8W	---	200V	400V	10R~1M	10R~1M	1/8W	1/4W	3.0	1.5	25	0.43±0.05
1/4W	1/4W	250V	500V	10R~1M	10R~1M	1/4W	1/2W	5.5	2.0	25	0.50±0.10
1/2W	1/2W	350V	700V	10R~1M	10R~1M	1/2W	1W	8.5	3.0	27	0.56±0.10
1W	1W	400V	800V	10R~1M	10R~1M	1W	2W	11	4.0	27	0.68±0.10
2W	2W	500V	1000V	10R~1M	10R~1M	2W	3W	15	4.5	27	0.75±0.10

※Special type on request〈EX：Flame Proof Type & Low ppm〉

CHARACTERISTUCS

CHARACTERISTIC	SPECIFICATION	TEST METHOD
DC RESISTANCE	Within specitied tolerance	MIL-STD-202 Method 303
TEMPERATURE COEFPICIENT	As buyer requested ±10ppm/°C±50ppm/°C ±10ppm/°C±50ppm/°C	MIL-STD-202 Method 304
DIELECTRIC STRENGTH	No flashover or damage	MIL-STD-202 Method 301
INSULATION RESISTANCE	At least 1,000MΩ	MIL-STD-202 Method 302
CURRENT NOISE TEST	below 10KΩ below 0.05μ V/V 10KΩ~below 0.1μ V/V below 1M7 below 0.2μ V/V	MIL-STD-202 Method 308
VIBRATION	▵ R with in ±(0.25%+0.05Ω)	MIL-STD-202 Method 201
TERMINAL STRENGTH	Lead is not break or loose	MIL-STD-202 Method 211
RESISTANCE TO SOIDERING HEAT	▵ R with in ±(0.25%+0.05Ω)	MIL-STD-202 Method 210
SOLDERABILITY	At least 95% coverage	MIL-STD-202 Method 208
THERMAL SHOCK	▵ R with in ±(0.5%+0.05Ω)	MIL-STD-202 Method 107
SHORT TIME OVERLOAD	▵ R with in ±(0.05%+0.05Ω)	MIL-R-10509
HUMIDTY	△ R with in ±(1%+0.05Ω) No mechanical damage	MIL-STD-202 Method 103
LOW TEMPERATURE OPERATION	▵ R with in ±(0.5%+0.05Ω)	MIL-R-10509
LOAD LIFE	▵ R with in ±(1%+0.05Ω)	MIL-STD-202 Method 108
RESISTANCE TO SOLVENT	Color bands legible No mechanical damage	MIL-STD-202 Method 215

DERATING CURVE



ORDERING INFORMATION

RM	08	10K0	F	T
Series : **Metal** **Film** **Resistor**	**Wattage :** **MF08=1/8W** **MF04=1/4W** **MF02=1/2W** **MF1W=1W**	**Value :** **0E50=0.5R** **2E30=2.3R** **12K1=12.1K** **1M00=1M**	**Tolerance :** **F=1%** **D=0.5%** **C=0.25%** **B=0.1%**	**Packing :** **T=Tapping** **B=Bulk** **M=Forming**